LINK ELECTRONICS, INC.

CHARACTER GENERATOR CAPTION DECODER
MODEL PDR-870

MADE IN THE USA

FEATURES

- ◆ Caption Decoder
- ◆ Data Recovery Decoder
- ◆ Character Generator Decoder
- ◆ TV Ratings Monitor
- ◆ NTSC or PAL(Stable Source)
- ◆ Composite or S-VHS Input
- ◆ High Impedenced Loop

- ◆ One RU Chassis
- ◆ S/N Ratio >60dB
- ◆ Dif Gain <0.1%
- ◆ Dif Phase <0.1°
- ◆ RS-232
- ◆ 4 Caption Channels
- ◆ 4 Text Channels

- ◆ XDS Channel
- ◆ Drop Shadow
- ◆ Extended Character Set
- ◆ Box Character Keying
- ◆ Internal or External Video
- ◆ Internal Video Generator
- ◆ Background Adjust

The PDR-870 is a high performance Closed Caption Decoder for the NTSC and PAL systems. It is capable of processing and displaying all standard closed caption format transmissions--including the EIA-608 Extended Character Set--in the manner of a typical closed caption decoder. A stable input video source is required.

Nine standard data channels are supported by the PDR-870: Captions channels 1 thru 4 (CC1-CC4), Text channels 1 thru 4 (T1-T4) and Extended Data Services (XDS). The various decoding channels are selectable by four front-panel toggle switches. Additional front-panel toggle switches provide NTSC/PAL video standard selection, drop-shadow or box character keying, and internal/external video. The internal video function allows the PDR-870 to generate its own video as a medium for producing open captions.

In addition, the PDR-870 can accept an RS-232 data stream and directly produce open captions, serving as a "character generator decoder." Along with it's powerful decoder functions, the PDR-870 can serve as an accurate "V-Chip" ratings monitor. All rating information described by EIA-744 may be displayed on-screen by the PDR-870. Both TV Parental Guidelines and Motion Picture Association of America (MPAA) ratings are supported.

The PDR-870 can recover incoming Line 21 data and send it to a computer terminal via the RS-232 port. This data may be recovered with or without the embedded closed caption control codes.

The PDR-870 can also perform a unique data conversion to reveal the "non-printing" characters that are part of the closed caption control codes.

Designed with the professional user in mind, the PDR-870 processes baseband video in either composite or S-Video formats. A rear-panel push-button switch is used to select the input/output format. The selected video mode is displayed at the front panel by a pair of green LEDs.

The composite video format uses a single high-impedance, looping input with two outputs. The S-Video format can use standard 4-pin mini-DIN connectors or BNCs for its input/output. The video performance is outstanding with differential phase and gain errors limited to less than 0.1° and 0.1% respectively.

The un-weighted signal-to-noise ratio approaches 70dB. AC-Coupled, complementary differential input amplifiers assure high common mode noise rejection while discrete phase-linear keyers provide clean insertion of the decoded characters into the video image.

Packaged in Link's 1RU 800-Series chassis, the PDR-870 is both rugged and reliable. All Link Electronics products are covered by one of the best warranties in the industry, 10-years including parts and labor. High performance, flexibility, and economy are equally represented in the PDR-870 CG, Data Recovery Decoder .

LINK ELECTRONICS, INC. ◆ 2137 Rust Avenue ◆ Cape Girardeau, MO 63703-7668
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MODEL PDR-870 SPECIFICATIONS

COMPOSITE INPUT:
Video Level: . . . . 1.0Vpp ±6dB(stable source)
Impedance: . . . . >18kΩ Looping
Connector: . . . . BNC
Maximum DC on Inputs: . . . . ±6.0VDC
Common Mode Range: 5Vpp
CMRR @60Hz: . . . . >50dB

COMPOSITE OUTPUTS:
Number: . . . . Two
Connector: . . . . BNC
Level: . . . . Unity Gain
Character Video: . . . . Adjustable, preset to 90 IRE Units
Character Background: . . . . Adjustable, preset to 10 IRE Units
Impedance: . . . . 75Ω ±1%
Frequency Response: . . . . ±0.1dB at 15MHz
. . . . -0.5dB at 17MHz
. . . . -1.0dB at 18.5MHz
. . . . -3.0dB at 26MHz
Differential Gain: 0.10%
Differential Phase: . . . . 0.10°
Propagation Delay: . . . . 19ns ±3
Hum and Noise: . . . . >65dB, unweighted
DC Offset: . . . . <2mV, Clamped
Line Rate Tilt: . . . . <0.1%
Field Rate Tilt: . . . . <0.1%

S-VIDEO INPUT:
Y Level: . . . . 1 Vpp ±6dB
C Level: . . . . 0.6 Vpp Nominal
Impedance: . . . . 75Ω ±1%
Connector: . . . . Four Pin Mini Din or One BNC pair (Y & C)

S-VIDEO OUTPUT:
Number: . . . . Two, one 4 Pin Mini Din & One BNC pair (Y & C)
Y Level: . . . . 1 Vpp ±6dB
C Level: . . . . 0.6 Vpp Nominal

DATA INPUT
NUMBER . . . . One (1)
STANDARD RS232C
CONNECTOR . . . . 9-pin Subminiature D
PROTOCOL . . . . Selectable, 1200 to 9600,n,8,1

ENVIRONMENTAL:
Temperature: . . . . 0° to 50°C ambient
Humidity: . . . . 10%/90% non-condensing
Power: . . . . 9.5 VAR
AC Voltage: . . . . 120/240 VAC±10%, 50/60Hz

MECHANICAL:
Height: . . . . 1.75 inches
Width: . . . . 19 inches
Depth: . . . . 7.5 inches
Weight: . . . . 2lbs., 9oz.

PROFESSIONAL SERIES--

stand-alone system products--by *LINK*

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